

IN THE CLAIMS

1. \ (Currently amended) System in a digital wireless data communication network ~~(40)~~ for arranging end-to-end (e2e) encryption, especially for communication in audio form, in which data communication network ~~(40)~~ two or more pieces of terminal equipment ~~(11.1, 11.2)~~ communicate with one another, including at least

- a codec ~~(24)~~ to convert an audio signal into a dataflow and vice versa,
- air-interface encryption means ~~(10, 30)~~,
- means ~~(28)~~ for management of encryption parameters ~~(TEK, IV)~~ stored in connection with the terminal equipment ~~(11.1, 11.2)~~
- an encryption key stream generator KSG ~~(23)~~ to generate a key stream segment (KSS) with the said encryption parameters ~~(TEK, IV)~~,
- means ~~(20)~~ for encrypting a dataflow and for decryption of the encryption with the generated key stream segment ~~(KSS, IV)~~,
- means ~~(33.1, 33.2)~~ for synchronization of the encrypted dataflow and for de-synchronizing the synchronization, and
- at least one interface ~~(10)~~ for receiving the encryption parameters from the data communication network ~~(40)~~,

and wherein at least one of the pieces of terminal equipment belonging to the data communication network ~~(40)~~ is fitted to function as a special server terminal device ~~(15)~~, which manages and distributes at least the encryption parameters ~~(10)~~ concerning the data communication network ~~(40)~~ to the other pieces of terminal equipment ~~(11.1, 11.2)~~ based on an established criterion, characterized in that

- in the data communication network ~~(40)~~-a special server terminal device ~~(15)~~ is also arranged, which is arranged to manage at least encryption and/or synchronization applications ~~(32)~~ and to distribute these based on an established criterion to the other pieces of terminal equipment ~~(11.1, 11.2)~~ and
- functionalities ~~(21, 22)~~ are arranged in the terminal equipment ~~(11.1, 11.2)~~ for downloading and managing the said applications

~~{32}~~ and

- data memory ~~{23}~~ for storing the applications ~~{32}~~ and
- a processor ~~{20}~~ and operating memory for carrying out the applications ~~{32}~~.

2. (Currently amended) System according to claim 1, characterized in that the terminal equipment ~~{11.1, 11.2}~~ is adapted with the said processor ~~{20}~~ to run applications ~~{32}~~ according to the J2ME (Java 2 Platform Micro Edition) specification.

3. (Currently amended) System according to claim 2, characterized in that the terminal equipment ~~{11.1, 11.2}~~ is configured in accordance with the MIDP (Mobile Information Device Profile) specification.

4. (Currently amended) System according to ~~any one of claims 1 – 3~~, characterized in that downloading of applications ~~{32}~~ at the terminal equipment ~~{11.1, 11.2}~~ is arranged to take place in a self-organizing manner, such as, for example, as SDS (Short Data Service) messages.

5. (Currently amended) Digital wireless terminal equipment ~~{11.1, 11.2}~~, to which functionalities belong, at least

- a module ~~{20}~~ for carrying out encryption,
- one or more modules ~~{33.1, 33.2}~~ for carrying out synchronization,
- and
- a module ~~{21, 28}~~ for receiving and managing at least encryption keys ~~{TEK}~~,

characterized in that the functionality of at least one module ~~{20, 33.1, 33.2, 21}~~ is adapted for implementation with a dynamic application ~~{27}~~ based on a program.

6. (Currently amended) Terminal equipment ~~{11.1, 11.2}~~ according to claim 5, including at least a SIM module ~~{28}~~, characterized in that the said application ~~{27}~~ is adapted to arrange command functionality ~~{21}~~ at least at the interface between the

SIM module (28) and the terminal equipment (11.1, 11.2) through the programming interface (MIDP API) of the application (27).